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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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## Complete if Known

Application Number	10/788,685
Filing Date	02/27/2004
First Named Inventor	Choi et al.
Group Art Unit	1756
Examiner Name	Young, Christopher G.
Attorney Docket Number	PA130-06D09

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
Chy	A1	4,070,116		Frosch et al.	01-24-1978	Class 505 Sub
	A2	4,600,309		Fay	07-15-1986	
	A3	4,848,911		Uchida et al.	07-18-1989	
	A4	5,074,667		Miyatake	12-24-1991	
	A5	5,148,036		Matsugu et al.	09-15-1992	
	A6	5,148,037		Suda et al.	09-15-1992	
	A7	5,151,754		Ishibashi et al.	09-29-1992	
	A8	5,179,863		Uchida et al.	01-19-1993	
	A9	5,376,810		Hoenk et al.	12-27-1994	
	A10	5,424,549		Feldman	06-13-1995	
	A11	5,670,415		Rust	09-23-1997	
	A12	5,743,998		Park	04-28-1998	
	A13	5,855,686		Rust	01-05-1999	
	A14	5,948,219		Rohner	09-07-1999	
	A15	6,035,805		Rust	03-14-2000	
	A16	6,150,680		Eastman et al.	11-21-2000	
	A17	6,326,627	B1	Putvinski et al.	12-04-2001	
	A18	2002/0132482	A1	Chou	09-19-2002	
	A19	2002/0167117	A1	Chou	11-14-2002	
	A20	6,482,742	B1	Chou	11-19-2002	
	A21	6,534,418	B1	Plat et al.	03-18-2003	
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	A23	2003/0081193	A1	White et al.	05-01-2003	
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	A25	2004/0036201	A1	Chou et al.	02-26-2004	
	A26	5,468,542		Crouch	11-21-1995	
	A27	5,366,851		Novembre	11-22-1994	
	A28	5,362,606		Hartney et al.	11-08-1994	
	A29	5,324,683		Fitch et al.	06-28-1994	
	A30	5,212,147		Sheats	05-18-1993	
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	A33	5,439,766		Day et al.	08-08-1995	
	A34	5,431,777		Austin et al.	07-11-1995	

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*Christopher G. Young*

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Sheet

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Application Number	10/788,685
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First Named Inventor	Choi et al.
Group Art Unit	1756
Examiner Name	Young, Christopher G.
Attorney Docket Number	PA130-06D09

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		Number	Kind Code <sup>2</sup> (if known)			
	A35	5,422,295		Choi et al.	06-06-1995	
	A36	5,421,981		Leader et al.	06-06-1995	
	A37	5,417,802		Obeng	05-23-1995	
	A38	5,380,474		Rye et al.	01-10-1995	
	A39	5,374,454		Bickford et al.	12-20-1994	
	A40	5,330,881		Sidman et al.	07-19-1994	
	A41	5,328,810		Lowrey et al.	07-12-1994	
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	A43	5,244,818		Jokerst et al.	09-14-1993	
	A44	5,242,711		DeNatale et al.	09-07-1993	
	A45	5,240,878		Fitzsimmons et al.	08-31-1993	
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	A66	4,931,351		McColgin et al.	06-05-1990	
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<b>Group Art Unit</b>	1756
<b>Examiner Name</b>	Young, Christopher G.
<b>Attorney Docket Number</b>	PA130-06D09

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		Number	Kind Code <sup>2</sup> (if known)			
C	A69	4,999,280		Hiraoka	03-12-1991	
	A70	5,071,694		Uekita et al.	12-10-1991	
	A71	5,169,494		Hashimoto et al.	12-08-1992	
	A72	5,173,393		Sezli et al.	12-22-1992	
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	A74	5,234,793		Sebald et al.	08-10-1993	
	A75	5,314,772		Kozicki et al.	05-24-1994	
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	A77	5,654,238		Cronin et al.	08-05-1997	
	A78	5,700,626		Lee et al.	12-23-1997	
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	A86	6,150,231		Muller et al.	11-21-2000	
	A87	6,245,581	B1	Bonser et al.	06-12-2001	
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	A89	6,329,256	B1	Ibok	12-11-2001	
	A90	6,383,928	B1	Eissa	05-07-2002	
	A91	6,387,783	B1	Furukawa et al.	05-14-2002	
	A92	6,388,253	B1	Su	05-14-2002	
	A93	6,391,798	B1	DeFelice et al.	05-21-2002	
	A94	6,455,411	B1	Jiang et al.	09-24-2002	
	A95	6,489,068	B1	Kye	12-03-2002	
	A96	6,514,672	B2	Young et al.	02-04-2003	
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	A99	2003/011368	A1	Mancini et al.	06-19-2003	
	A100	2003/0129542	A1	Shih et al.	07-10-2003	
	A101	6,632,742	B2	Yang et al.	10-14-2003	
	A102	6,635,581	B2	Wong	10-21-2003	

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Substitute for form 1449A/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/788,685
				Filing Date	02/27/2004
				First Named Inventor	Choi et al.
				Group Art Unit	1756
				Examiner Name	Young, Christopher G.
				Attorney Docket Number	PA130-06D09
Sheet	4	of	8		

U.S. PATENT DOCUMENTS

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Sheet	5	of	8	Attorney Docket Number	PA130-06D09

## FOREIGN PATENT DOCUMENTS

**Examiner Signature** *Chun* **Date Considered** *1/2005*

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### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>CY</i>	A122	Abstract of Japanese Patent 63-138730	
<i>AB</i>	A123	Abstract of Japanese Patent 55-88332	
	A124	Abstract of Japanese Patent 57-7931	
	A125	Abstract of Japanese Patent 02-92603.	
	A126	Translation of Japanese Patent 02-92603.	
	A127	Abstract of Japanese Patent 02-24848.	
	A128	Translation of Japanese Patent 02-24848.	
	A129	HEIDARI et al., "Nanolithography at the 6 in. Wafer Scale," Journal of Vacuum Science Technology, Nov/Dec 2000, pp. 3557-3560, vol. B, no. 18(6)/	
	A130	NERAC.COM Retro Search, "Reduction of Dimension of Contact Holes", August 31, 2004	
<i>AB</i>	A131	NERAC.COM Retro Search, "Trim Etching of Features Formed on an Organic Layer", September 2, 2004	
<i>CY</i>	A132	NERAC.COM Retro Search, "Multi-Layer Resists", September 2, 2004	

Examiner Signature

*Christopher G. Young*

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<i>Chy</i>	A133	HU et al., "Flourescence Probe Techniques (FPT) for Measuring the Relative Efficiencies of Free-Radical Photoinitiators", s0024-9297(97)01390-9; "Macromolecules" 1998, vol. 31, no.13 , pp. 4107-4113, 1998 American Chemical Society. Published on Web 05/29/1998	
<i>Chy</i>	A134	FEYNMAN, Richard P., "There's Plenty of Room at the Bottom—An Invitation to Enter a New Field of Physics," 12 pp [online][Retrieved 9/23/04 from URL: <a href="http://www.zyvex.com/nanotech/feynman.html">http://www.zyvex.com/nanotech/feynman.html</a> ]	
	A135	CIBA SPECIALTY CHEMICALS BUSINESS LINE COATINGS, "What Is UV Curing?", 45 pp [online][Retrieved 9/24/04 from URL: <a href="http://www.cibasc.com/image.asp?id=4040">http://www.cibasc.com/image.asp?id=4040</a> ]	
	A136	Communication Relating to the Results of the Partial International Search; International Appl. No. PCT/US2002/015551.	
	A137	Papirer et al., "The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.	
	A138	Abstract of Papirer et al., "The Grafting of Perfluorinated Silanes onto the Surface of Silica: Characterization by Inverse Gas Chromatography," August 1993, pp238-242, vol. 159, Issue 1.	
	A139	Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	
	A140	Abstract of Hirai et al., "Mold Surface Treatment for Imprint Lithography," August 2001, pp 457-462, vol 14, No. 3.	
	A141	Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.	
<i>Chy</i>	A142	Abstract of Sung et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication," July 2003, pp. 808-818, vol. 255, no. 7.	
<i>Chy</i>	A143	Roos et al., "Nanolithography with a Commercial 4 Inch Bond System for Hot Embossing," October 2001, pp. 427-435, vol. 4343.	

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GSA FPMR (41 CFR) 101-11.1(C)(2)(B); GSA FPMR (41 CFR) 101-11.1(C)(2)(B)

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**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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<sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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**Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231**